# **Secure Coding**

Lab - 8

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Working with the memory vulnerabilities - Part II

#### Task:

- Download Vulln.zip from teams.
- Deploy a virtual windows 7 instance and copy the Vulln.zip into it.
- Unzip the zip file. You will find two files named exploit.py and Vuln\_Program\_Stream.exe
- Download and install python 2.7.\* or 3.5.\*
- Run the exploit script II (exploit2.py- check today's folder) to generate the payload
- Install Vuln\_Program\_Stream.exe and Run the same

#### Analysis:

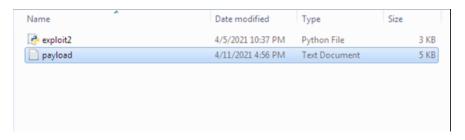
- Try to crash the Vuln\_Program\_Stream program and exploit it.
- Change the default trigger from cmd.exe to calc.exe (Use msfvenom in Kali linux).

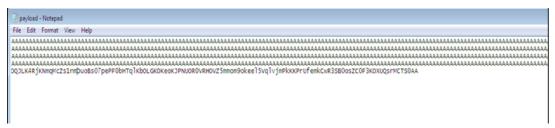
# Example:

msfvenom -a x86 --platform windows -p windows/exec CMD=calc - e x86/alpha\_mixed -b " $x00\x14\x09\x0a\x0d$ " -f python

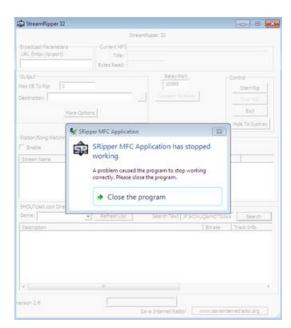
• Change the default trigger to open control panel.

# A payload is generated as





### Trying to crash program with payload:



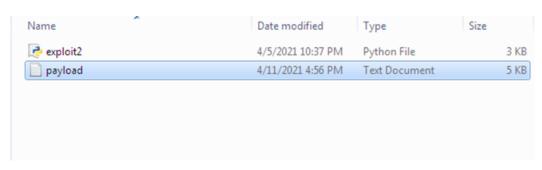
Now we crashed the vuln program with payload successfully

#### Now we generate code in kali linux

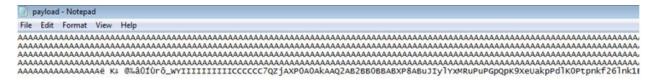
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#### Payload for changed code:

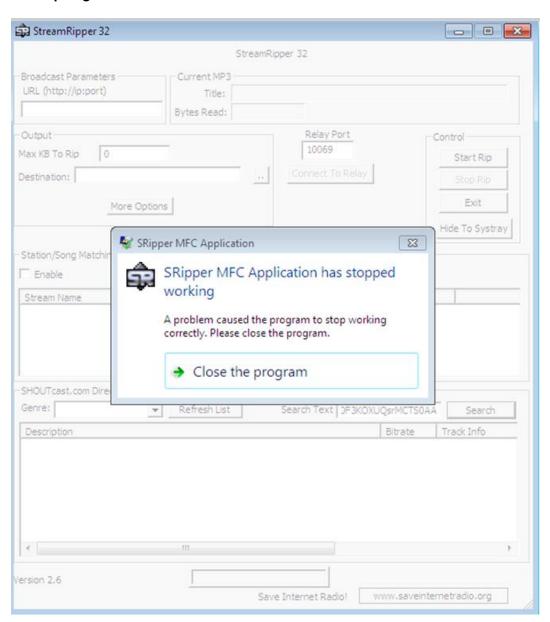


# Payload after executing exploit2.py script for calculator:



#### After running it in the vlun:

#### Vuln program crashed



# After crashing calculator opened

